

CLAIMS

8. A hydraulic cylinder (1) comprising a cylinder chamber (6), a piston head (4) within said cylinder chamber (6) forming two sub chambers (7, 7') of said cylinder chamber one on each side of the piston head (4), and a piston rod which runs from one side of the piston head (4) through at least one of said sub chambers (7, 7'), wherein a hydraulic power unit (8) for operation of the hydraulic cylinder (1) is situated at least partly within the parts forming the piston head (4) and or the piston rod (5).
9. Hydraulic cylinder according to claim 8, wherein the piston rod (5) runs through both sub chambers (7, 7').
10. Hydraulic cylinder according to either of claims 8 or 9, wherein the piston head (4) comprises feed lines for hydraulic fluid from the first sub chamber (7), through valves (12) and a hydraulic pump (11) to the second sub chamber (7').
11. Hydraulic cylinder according to either of claims 8 or 9, wherein the piston head (4) comprises at least partly a remote controlling device and the hydraulic power unit (8), comprising at least a motor (10), a circuit board (13), valves (12), a pressure transmitter (14), a hydraulic pump (11) for the hydraulic cylinder (1).
12. Hydraulic cylinder according to claim 8 or 9, wherein a motor (10) and a hydraulic pump (11) of the hydraulic power unit are positioned at least partly within the piston rod (5).
13. Hydraulic cylinder according to claim 12, wherein the hydraulic cylinder is two-way operational and the hydraulic pump (11) is a two-way pump.
14. Plug (21) for closing off a pipeline (20) for a fluid flow, comprising anchoring (24) and sealing (25) means for anchoring and sealing against the internal wall of the pipeline (20), which means are operated by at least one hydraulic cylinder, which hydraulic cylinder comprises a cylinder with a cylinder chamber (6), a piston head (4) situated within the cylinder chamber (6) and dividing it in two sub chambers (7, 7') and a piston rod (5) which runs through the piston head (4) and through at least one of the sub chambers (7, 7'), wherein a hydraulic power unit (8) and remote operation devices for the hydraulic cylinder are situated at least partly within the piston head (4) and or the piston rod (5).
15. Plug according to claim 14, wherein the piston rod (5) runs through both sub chambers (7, 7').
16. Plug according to either of claims 14 or 15, wherein the piston head (4) comprises feed lines for hydraulic fluid from the first sub chamber (7), through valves (12) and a hydraulic pump (11) to the second sub chamber (7').

17. Plug according to either one of claims 14 or 15, wherein the piston head (4) comprises at least partly a remote controlling device and the hydraulic power unit (8), comprising at least a motor (10), a circuit board (13), valves (12), a pressure transmitter (14), and a hydraulic pump (11) for the hydraulic cylinder (1).
18. Plug according to either of claims 14 or 15, wherein a motor (10) and the hydraulic pump (11) of the hydraulic power unit are positioned at least partly within the piston rod (5).
19. Plug according to claim 18, wherein the hydraulic cylinder is two-way operational and the hydraulic pump (11) is a two-way pump.